PATENT COOPERATION TREATY REC'D 16 FEB 2005

PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicantia or exerting		7	
Applicant's or agent's file reference 9973	FOR FURTHER ACTIO	ON See Form PCT/IPEA/416	
International application No. PCT/GB2004/000753	International filing date (day) 27.02.2004	month/year) Priority date (day/month/year) 05.03.2003	
International Patent Classification (IPC) or n B01F7/16, B01F7/24	ational classification and IPC		
Applicant BP CHEMICALS LIMITED et al.			
This report is the international preduction Authority under Article 35 and transport. This REPORT consists of a total of the consists of the c	iminary examination report, smitted to the applicant acco	established by this International Preliminary Examining ording to Article 36.	
ship it is one consists of a total of 5 sheets, including this cover shoot			
Topon to also accompanied by ANNEXES, comprising.			
and to the applicant and to the international Bureau) a total of 2 shoots as full			
and/or sheets containin Administrative Instruction	n, claims and/or drawings w g rectifications authorized by ons).	hich have been amended and are the basis of this report y this Authority (see Rule 70.16 and Section 607 of the	
☐ sheets which supersed beyond the disclosure in Supplemental Box.	e earlier sheets, but which th n the international applicatio	nis Authority considers contain an amendment that goes on as filed, as indicated in item 4 of Box No. I and the	
b. (sent to the International Bu	reau only) a total of (indicate	e type and number of electronic carrier(s)) , containing a ter readable form only, as indicated in the Supplemental e Administrative Instructions).	
4. This report contains indications rela	ting to the following items:		
☑ Box No. I Basis of the opinion			
☐ Box No. II Priority	//I		
	t of oninion with warned t		
☐ Box No. IV Lack of unity of in	rention	ovelty, inventive step and industrial applicability	
Box No. V Reasoned statement		regard to novelty, inventive step or industrial	
☐ Box No. V! Certain documents	cited	rung such statement	
Box No. VII Certain defects in	the international application		
☐ Box No. VIII Certain observatio	ns on the international appli	cation	
Date of submission of the demand	Date o	of completion of this report	
	24.00	Completion of this report	
20.09.2004	15.02	2.2005	
Name and mailing address of the international preliminary examining authority:	Author	ized Officer	
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 6 Fax: +49 89 2399 - 4465		deputation Palance.	
	Telepho	one No. +49 89 2399-2331	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/000753

	Box No. I Basis of the re	eport	
	. With regard to the language , this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.		
 □ This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: □ international search (under Rules 12.3 and 23.1(b)) □ publication of the international application (under Rule 12.4) □ international preliminary examination (under Rules 55.2 and/or 55.3) 			
2	2. With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):		
	Description, Pages		
	1-14	as originally filed	
Claims, Numbers			
	1-10	filed with telefax on 06.12.2004	
	Drawings, Sheets		
	1/2-2/2	as originally filed	
	☐ a sequence listing and/o	any related table(s) - see Supplemental Box Relating to Sequence Listing	
3.	☐ The amendments have r☐ the description, pages	esulted in the cancellation of	
	☐ the claims, Nos.☐ the drawings, sheets/☐ the sequence listing (☐ any table(s) related to	igs specify): sequence listing <i>(specify)</i> :	
4.	Supplemental Box (Rule 70.2)	ablished as if (some of) the amendments annexed to this report and listed below (c)).	
	☐ the description, pages☐ the claims, Nos.☐ the drawings, sheets/fi		
	☐ the sequence listing (s	gs <i>pecify)</i> : sequence listing <i>(specify)</i> :	
		some or all of these sheets may be marked "superseded "	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/000753

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-10

No: Claims

Inventive step (IS)

1-10

Yes: Claims No: Claims

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

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Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document/s/:

D1: FR-A-2083160 (STEHNING)

D2: GB-A-1321709

The present invention relates to a stirring apparatus (claim 1), or a system including many of them (claim 7), and a method of using that apparatus (claims 8,9).

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows (the references in parentheses applying to this document): a vessel having a conduit extending therefrom and a stirrer having a feeding screw section located in said conduit, and a stirring section located in the vessel.

The subject-matter of claim 1 differs from this known D1 in that the vessel is much smaller than the known ones, and there is a stirrer drive able to rotate the stirrer in both directions.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as providing a system that avoids that the conduit may be clogged.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

None of the available prior art discloses such an exercise fourth.

None of the available prior art discloses such an system, furthermore, the system avoids the need of a valve at the entry of the vessel, as long as the stirrer is driven in the feeding direction, no material can escape from the vessel.

Claims 2-6 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

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Remark: for the method, there should be a single independent claim only.